

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4660	(mail or e\$\$mail) near4 complet\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:43
S2	156	(mail or e\$\$mail) near4 complet\$3 near4 automatic\$5	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:41
S3	11	S2 and (designat\$3 near4 recipient)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:41
S4	2794	(mail or e\$\$mail) and (notif\$6 near4 complet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:44
S5	42	(mail or e\$\$mail) and (respon\$3 near4 notif\$6 near4 complet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:44
S6	3	(mail or e\$\$mail) and (respon\$3 near4 notif\$6 near4 complet\$3) and (designat\$3 and recipient)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:48
S7	2125	(mail or e\$\$mail) and (complet\$3 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:48
S8	82	(mail or e\$\$mail) and (complet\$3 near4 button) and (designat\$3 near4 recipient)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:49
S9	0	(mail or e\$\$mail) and (notif\$6 near4 complet\$3 near4 button) and (designat\$3 near4 recipient)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:49
S10	25	(mail or e\$\$mail) and (notif\$6 near4 complet\$3 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:50
S11	50	(mail or e\$\$mail).ti. and (complet\$3 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:50

EAST Search History

S12	21	(mail or e\$\$mail).ti. and (complet\$3 near4 button) and recipient and designat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 13:56
S13	12	(mail or e\$\$mail).ti. and (complet\$3 near4 task) and (repl\$4 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:03
S14	8	(mail or e\$\$mail).ti. and (complet\$3 near4 task) and (auto\$\$respon\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:03
S15	12	(mail or e\$\$mail).ti. and (complet\$3 near4 task) and ((reply\$3 or respon\$3) near4 quer\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:05
S16	2	(mail or e\$\$mail).ti. and (complet\$3 near4 button) and ((reply\$3 or respon\$3) near4 quer\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:05
S17	4	(mail or e\$\$mail).ti. and (complet\$3 near4 button near5 (reply\$3 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:07
S18	8	(mail or e\$\$mail).ti. and (complet\$3 near4 indicat\$3 near5 (reply\$3 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:11
S19	15	(mail or e\$\$mail).ti. and (complet\$3 near4 indicator)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:13
S20	45	(mail or e\$\$mail).ab. and (complet\$3 near4 indicator)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:17
S21	41	(mail or e\$\$mail).ab. and (complet\$3 near4 indicator) and (repl\$4 or respon\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:13
S22	0	(mail or e\$\$mail).ab. and (complet\$3 near4 indicator) and (track\$3 near4 (repl\$4 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:13
S23	206	(mail or e\$\$mail).ab. and (track\$3 near4 (repl\$4 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:13

EAST Search History

S24	206	(mail or e\$\$mail).ab. and (track\$3 near4 (repl\$4 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 14:17
S25	17	(mail or e\$\$mail).ab. and (track\$3 near4 (repl\$4 or respon\$3)) and (complet\$3 near4 task\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:21
S26	206	(mail or e\$\$mail).ab. and (track\$3 near4 (repl\$4 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:21
S27	106	(mail or e\$\$mail).ti. and (track\$3 near4 (repl\$4 or respon\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:22
S28	2	(mail or e\$\$mail).ti. and (track\$3 near4 (repl\$4 or respon\$3)) and (notif\$7 near4 complet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:22
S29	53	(mail or e\$\$mail).ti. and (track\$3 near4 (repl\$4 or respon\$3)) and 709/206.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:23
S30	24	(mail or e\$\$mail).ti. and (track\$3 near4 (repl\$4 or respon\$3)) and 709/206.ccls. and recipient and designat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:30
S31	30	(mail or e\$\$mail).ab. and (track\$3 near4 (repl\$4 or respon\$3)) and 709/206.ccls. and recipient and designat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:32
S32	7	((mail or e\$\$mail) near5 track\$3 near4 reply\$3) and 709/206.ccls. and recipient and designat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:33
S33	13	((mail or e\$\$mail) near4 reply\$3) and 709/206.ccls. and recipient and designat\$3 and (complet\$3 near4 task)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:09
S34	35	((mail or e\$\$mail) near4 reply\$3) and 709/206.ccls. and (complet\$3 near4 task)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:40
S35	1	((mail or e\$\$mail) near4 reply\$3) and 709/206.ccls. and ("completed" near4 (button or icon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:40

EAST Search History

S36	22	709/206.ccls. and ("completed" near4 (button or icon))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/17 10:56
S37	11	709/206.ccls. and (notif\$7 near4 complet\$3 near4 task)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:47
S38	13	"6327611"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:44
S39	1	"6076101".PN.	USPAT; USOCR	OR	ON	2007/03/10 16:46
S40	1	"6012083".PN.	USPAT; USOCR	OR	ON	2007/03/10 16:46
S41	1	"5978836".PN.	USPAT; USOCR	OR	ON	2007/03/10 16:46
S42	1	"5923848".PN.	USPAT; USOCR	OR	ON	2007/03/10 16:46
S43	162	709/206.ccls. and (notif\$7 near4 complet\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:47
S44	11	709/206.ccls. and (notif\$7 near4 complet\$3) and (inform\$3 near4 recipient)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:52
S45	24	709/206.ccls. and (notif\$7 near4 complet\$3) and ((mail or e\$\$mail) near4 reply\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:59
S46	51	709/206.ccls. and (notif\$7 near4 complet\$3) and ((mail or e\$\$mail) near4 respon\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/10 16:59
S47	25	709/206.ccls. and (notif\$7 near4 complet\$3) and ((mail or e\$\$mail) near4 respon\$4) and task	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/03/12 10:19
S48	1	("6993558").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/12 11:37
S49	1	("20010042081").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/12 11:37

EAST Search History

S50	1	("20050027803").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 19:14
S51	1	("7032029").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 19:18
S52	1	("6327511").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 19:18
S53	1	"5997167".PN.	USPAT; USOCR	OR	ON	2007/03/14 19:20
S54	52	("3971000" "4319338" "4688167" "4845644" "4858152" "4897777" "4912623" "4937777" "4949274" "4953074" "4992926" "5012402" "5023770" "5047959" "5072356" "5072412" "5109487" "5122948" "5131092" "5134574" "5151896" "5151978" "5157595" "5159673" "5161211" "5165030" "5179700" "5225974" "5245704" "5251302" "5283861" "5297257" "5307463" "5321829" "5349675" "5398336" "5406473" "5420977" "5440699" "5446868" "5528503" "5598536" "5613115" "5623652" "5625781" "5699350" "5734831" "5805442" "5950006" "5975737" "5982362" "5997167").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/14 19:20
S55	17	S54 and peer	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/14 19:21
S56	2	(("6226670") or ("6374292")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 11:00
S57	16	"6226670"	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:20
S58	460	(redirect\$3 near4 (ip near4 address\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:21
S59	12	(redirect\$3 near4 (ip near4 address\$3)) and (data near4 terminal) and (wireless near4 terminal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:31

EAST Search History

S60	0	(redirect\$3 near4 (ip or (internet near4 protocol))) and (data near4 terminal) and (wireless near4 terminal) and (content near4 provider)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:31
S61	41	(redirect\$3) and (data near4 terminal) and (wireless near4 terminal) and (content near4 provider)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:31
S62	3	(redirect\$3) and (data near4 terminal) and (wireless near4 terminal) and (content near4 provider) and (provid\$3 near4 (ip or internet near4 protocol) near4 address\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 11:33
S63	13	(data near4 terminal) and (wireless near4 terminal) and (content near4 provider) and (provid\$3 near4 (ip or internet near4 protocol) near4 address\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/17 12:01
S64	2	(("6691106") or ("6731612")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 13:35
S65	2	(("6778492") or ("20020109879")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/17 13:35
S66	4	((mail or e\$\$mail) near5 autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:13
S67	14	((mail or e\$\$mail) same autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:15
S68	390	((mail or e\$\$mail) and autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:16
S69	21	((mail or e\$\$mail) and autonomic) and sender and recipient	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:23
S70	21	((mail\$3 or e\$\$mail) and autonomic) and sender and recipient	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:25

EAST Search History

S71	9	((mail\$3 or e\$\$mail) and autonomic) and to\$\$do	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:30
S72	70	((mail\$3 or e\$\$mail) and autonomic) and ful\$\$fill\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:31
S73	20	((mail\$3 or e\$\$mail) and autonomic) and ((task or question) near4 ful\$\$fill\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:32
S74	5	((mail\$3 or e\$\$mail).ti. and autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 15:29
S75	15	((mail\$3 or e\$\$mail).ab. and autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:34
S76	36	((mail\$3 or e\$\$mail).clm. and autonomic)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 14:34
S77	42	((mail\$3 or e\$\$mail) and (indicat\$3 near4 autonomic))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 15:32
S78	8	((mail\$3 or e\$\$mail) and ((reply\$3 or respond\$3) near4 autonomic))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:42
S79	1	("6374292").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/26 15:43
S80	3	("5761415") or ("5822526") or ("5632018").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/26 15:51
S81	67	"5632018"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:12
S82	38	"5632018" and (mail\$3 or e\$\$mail\$3) and respond\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 15:53

EAST Search History

S83	2058	((mail\$3 or e\$\$mail) same question same answer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:20
S84	14	((mail\$3 or e\$\$mail) same question same answer) and autonomic	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:20
S85	167	((mail\$3 or e\$\$mail).ti.) and (question near5 answer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:21
S86	105	((mail\$3 or e\$\$mail).ti.) and ((reply\$3 or respon\$4) near5 answer)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:33
S87	6	((mail\$3 or e\$\$mail).ti.) and ((reply\$3 or respon\$4) near5 answer) and ((complet\$3 or clos\$3) near4 (action or request\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 16:57
S88	2	("20020087646" or ("6691153")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/26 17:03
S89	1	("20040024655").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/26 17:03
S90	1193	((mail\$3 or e\$\$mail) and ((reply\$3 or respond\$3))) and (complet\$3 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:42
S91	150	((mail\$3 or e\$\$mail) near4 (reply\$3 or respond\$3)) and (complet\$3 near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:43
S92	19	((mail\$3 or e\$\$mail) near4 (reply\$3 or respond\$3)) and (completion near4 button)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:49
S93	444	((mail\$3 or e\$\$mail) near4 (reply\$3 or respond\$3)) and (complet\$3 near4 (task or answer))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:50
S94	108	((mail\$3 or e\$\$mail).ti. and (reply\$3 or respond\$3)) and (complet\$3 near4 (task or answer))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:50

EAST Search History

S95	3	((mail\$3 or e\$\$mail).ti.) and ((task or answer) near4 (reply\$3 or respond\$3)) and (complet\$3 near4 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:52
S96	40	((mail\$3 or e\$\$mail).ab.) and ((task or answer) near4 (reply\$3 or respond\$3)) and (complet\$3 near4 indicat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:55
S97	2137	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (complet\$3 near4 indicat\$3) and (answer near4 status)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 18:56
S98	7	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (complet\$3 near4 indicat\$3) and (answer near4 status)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/26 19:01
S99	291	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (complet\$3 near4 indicat\$3) and (track\$3 near4 status)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 00:55
S100	28	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (complet\$3 near4 indicat\$3) and (e\$\$respon\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 10:44
S101	27	"e-sponses"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 09:33
S102	4957	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (unique\$3 near4 identifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 10:44
S103	170	((mail or e\$\$mail) same (reply\$3 or respon\$4)) and (unique\$3 near4 identifier send\$3) and (unique\$3 near4 (reply or respon\$4) near4 identifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 10:45
S104	86	((mail or e\$\$mail) near10 (reply\$3 or respon\$4)) and (unique\$3 near4 identifier send\$3) and (unique\$3 near4 (reply or respon\$4) near4 identifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 10:45
S105	3	((mail or e\$\$mail) near10 (reply\$3 or respon\$4)) and (unique\$3 near4 identifier send\$3) and (unique\$3 near4 (reply or respon\$4) near4 identifier) and (unique\$3 near4 combin\$5 near4 identifier)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/04/27 15:11

EAST Search History

S10 6	1	("20020120581").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/27 15:18
S10 7	1	("20050027803").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/27 16:55
S10 8	1	("20050080853").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/27 16:55
S10 9	1	("20050027803").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/01 16:32
S11 0	1	("20020035605").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/01 16:32
S11 1	3124	((mail) near4 complet\$3) and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:32
S11 2	94	((mail) near4 complet\$3 near4 (reply\$3 or respon\$4)) and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 00:57
S11 3	30	((mail) near4 complet\$3 near4 (reply\$3 or respon\$4)) and (@ad<"20030731" or @rlad<"20030731") and recipient and sender	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:04
S11 4	202	((mail) near4 (reply\$3 or respon\$4)) and (indicat\$3 near4 (complet\$3 or finish\$3))and (@ad<"20030731" or @rlad<"20030731") and recipient and sender	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:05
S11 5	12	((mail) near4 (reply\$3 or respon\$4)) and (indicat\$3 near4 (complet\$3 or finish\$3) near4 action)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:14
S11 6	1	"20020087646"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:10
S11 7	0	((mail) near4 (reply\$3 or respon\$4)) and (indicat\$3 near4 (complet\$3 or finish\$3) near4 answer\$3)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:15

EAST Search History

S11 8	57	((mail) near4 (reply\$3 or respon\$4)) and ((complet\$3 or finish\$3) near4 answer\$3)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:15
S11 9	55	((mail) near4 (reply\$3 or respon\$4)) and ((complet\$3 or finish\$3) near4 answer\$3)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender and group	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:21
S12 0	142	((indicat\$3) near4 (reply\$3 or respon\$4)) and (group\$3 near4 mail)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender and group	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:23
S12 1	26	((indicat\$3) near4 (reply\$3 or respon\$4)) and (notif\$6 near4 recipient) and (group\$3 near4 mail)and (@ad<"20030731" or @rlad<"20030731") and recipient and sender and group	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:23
S12 2	28	(designat\$3 near4 complet\$3) and 709/206.ccls. and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:48
S12 3	84	(action near4 complet\$3) and 709/206.ccls. and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 01:49
S12 4	1	(notif\$7 near4 group) and (action near4 complet\$3) and 709/206.ccls. and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 02:05
S12 5	1	"20050027803"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 02:03
S12 6	15	(mail near4 group) and (action near4 complet\$3) and 709/206.ccls. and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 02:08
S12 7	5	(mail near4 group) and (answer\$3 near4 complet\$3) and 709/206.ccls. and (@ad<"20030731" or @rlad<"20030731")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 02:10
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S13 3	53	(mail near5 group) and (notif\$7 near4 complet\$3) and (@ad<"20030731" or @rlad<"20030731") and "709"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 14:00
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S13 9	30	(wilbrink).in. and (mail or e\$mail)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/11/02 14:14

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IET JNL IET Journal or Magazine

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IEEE CNF IEEE Conference Proceeding

[Zeigler, B.L.; Bulley, N.;](#)

IET CNF IET Conference Proceeding

[Interactive Voice Technology for Telecommunications Applications, 1998. IVTTA '98.](#)

IEEE STD IEEE Standard

[Proceedings. 1998 IEEE 4th Workshop](#)

[29-30 Sept. 1998 Page\(s\):215 - 218](#)

[Digital Object Identifier 10.1109/IVTTA.1998.727723](#)

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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 1. **Feedback control of a Lotus Notes server: modeling and control design**

Gandhi, N.; Tilbury, D.M.; Parekh, S.; Hellerstein, J.;
[American Control Conference, 2001. Proceedings of the 2001](#)
 Volume 4, 25-27 June 2001 Page(s):3000 - 3005 vol.4
 Digital Object Identifier 10.1109/ACC.2001.946372

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 2. **Control and localisation of a post distributing mobile robot**

Adams, M.; Tschichold-Gurman, N.; Muller, R.; Neogy, S.; Ruf, L.; Vestli, S.; von Flue, D.;
[Intelligent Robots and Systems '94. 'Advanced Robotic Systems and the Real World', IROS '94](#)
[Proceedings of the IEEE/RSJ/GI International Conference on](#)
 Volume 1, 12-16 Sept. 1994 Page(s):150 - 156 vol.1
 Digital Object Identifier 10.1109/IROS.1994.407397

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Relevance scale

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Principled design of the modern Web architecture](#)



Roy T. Fielding, Richard N. Taylor

 May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(335.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

3 [Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world](#)



Marjory S. Blumenthal, David D. Clark

 August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM Press

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available: [pdf\(176.33 KB\)](#)[terms](#)

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

4 Abstract state machines capture parallel algorithms



Andreas Blass, Yuri Gurevich

October 2003 **ACM Transactions on Computational Logic (TOCL)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: [pdf\(610.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We give an axiomatic description of parallel, synchronous algorithms. Our main result is that every such algorithm can be simulated, step for step, by an abstract state machine with a background that provides for multisets.

Keywords: ASM thesis, Parallel algorithm, abstract state machine, postulates for parallel computation

5 Fighting the spam wars. A remailer approach with restrictive aliasing



Pawel Gburzynski, Jacek Maitan

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(162.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present an effective method of eliminating unsolicited electronic mail (so-called *spam*) and discuss its publicly accessible prototype implementation. A subscriber to our system is able to obtain an unlimited number of aliases of his/her permanent (protected) E-Mail address to be handed out to parties willing to communicate with the subscriber. It is also possible to set up publishable aliases, which can be used by human correspondents to contact the subscriber, while being useless to h ...

Keywords: Electronic mail, privacy, spam

6 The design, implementation and operation of an email pseudonym server



David Mazières, M. Frans Kaashoek

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**

Publisher: ACM Press

Full text available: [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 System support for pervasive applications



Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM PressFull text available: [pdf\(1.82 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

8 [TeleNotes: managing lightweight interactions in the desktop](#)

Steve Whittaker, Jerry Swanson, Jakov Kucan, Candy Sidner

June 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Communication theories and technology have tended to focus on extended, formal meetings and have neglected a prevalent and vital form of workplace communication—namely, lightweight communication. Unlike formal, extended meetings, lightweight interaction is brief, informal, unplanned, and intermittent. We analyze naturalistic data from a study of work-place communication and derive five design criteria for lightweight interaction systems. These criteria require that systems for lightwe ...

Keywords: audio, awareness, computer-media spaces, conversation management, impromptu communication, informal communication, interpersonal communications, lightweight interaction, mediated communication, remote collaboration, task management, video

9 [A framework for delivering multicast message in networks with mobile hosts](#)

Arup Acharya, B. R. Badrinath

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2**Publisher:** Kluwer Academic PublishersFull text available: [pdf\(438.33 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To accommodate mobile hosts (MHs) within existing data networks, the static network is augmented with "mobile support stations" (MSSs) that communicate directly with MHs, usually via wireless links. Connectivity of the overall network changes dynamically as MHs connect to the static network from different "locations" (MSSs) at different times.

Compared to their desktop counterparts, mobile hosts face a new set of constraints namely, low bandwidth of the wireless links ...

10 [Draft report of the Federal Internetworking Requirements Panel, and selected responses](#)

Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2**Publisher:** ACM PressFull text available: [pdf\(4.15 MB\)](#)Additional Information: [full citation](#), [index terms](#)

11 Unlinkable serial transactions: protocols and applications Stuart G. Stubblebine, Paul F. Syverson, David M. GoldschlagNovember 1999 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 2 Issue 4

Publisher: ACM PressFull text available:  [pdf\(184.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

Keywords: anonymity, blinding, cryptographic protocols, unlinkable serial transactions

12 The dynamics of viral marketing Jure Leskovec, Lada A. Adamic, Bernardo A. HubermanMay 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(732.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an analysis of a person-to-person recommendation network, consisting of 4 million people who made 16 million recommendations on half a million products. We observe the propagation of recommendations and the cascade sizes, which we explain by a simple stochastic model. We analyze how user behavior varies within user communities defined by a recommendation network. Product purchases follow a 'long tail' where a significant share of purchases belongs to rarely sold items. ...

Keywords: Viral marketing, e-commerce, long tail, network analysis, recommender systems, word-of-mouth

13 Nomadic radio: speech and audio interaction for contextual messaging in nomadic environments Nitin Sawhney, Chris SchmandtSeptember 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(648.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile workers need seamless access to communication and information services while on the move. However, current solutions overwhelm users with intrusive interfaces and ambiguous notifications. This article discusses the interaction techniques developed for Nomadic Radio, a wearable computing platform for managing voice and text-based messages in a nomadic environment. Nomadic Radio employs an auditory user interface, which synchronizes speech recognition, speech synthesis, nonspeech audio ...

Keywords: adaptive interfaces, contextual interfaces, interruptions, nonspeech audio, notifications, passive awareness, spatial listening, speech interaction, wearable computing

14 Johnny 2: a user test of key continuity management with S/MIME and Outlook  Express

Simson L. Garfinkel, Robert C. Miller

July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Publisher: ACM Press

Full text available: .pdf(665.63 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Secure email has struggled with significant obstacles to adoption, among them the low usability of encryption software and the cost and overhead of obtaining public key certificates. Key continuity management (KCM) has been proposed as a way to lower these barriers to adoption, by making key generation, key management, and message signing essentially automatic. We present the first user study of KCM-secured email, conducted on naïve users who had no previous experience with secure email. Our ...

Keywords: Usability, e-commerce, user interaction design, user studies

15 Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service  Yasushi Saito, Brian N. Bershad, Henry M. LevyAugust 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: .pdf(2.52 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

16 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles  Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar SenguptaMay 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: .pdf(693.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

17 Design and evaluation of a wide-area event notification service

 Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf
August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.08 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The components of a loosely coupled system are typically designed to operate by generating and responding to asynchronous events. An event notification service is an application-independent infrastructure that supports the construction of event-based systems, whereby generators of events publish event notifications to the infrastructure and consumers of events subscribe with the infrastructure to receive relevant notifications. The two primary services that should be provided ...

Keywords: content-based addressing and routing, event notification, publish/subscribe

18 Astrolabe: A robust and scalable technology for distributed system monitoring,

 management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

Publisher: ACM Press

Full text available:  pdf(341.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track systems ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

19 PP-trust-X: A system for privacy preserving trust negotiations

 A. Squicciarini, E. Bertino, Elena Ferrari, F. Paci, B. Thuraisingham
July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Trust negotiation is a promising approach for establishing trust in open systems, in which sensitive interactions may often occur between entities with no prior knowledge of each other. Although, to date several trust negotiation systems have been proposed, none of them fully address the problem of privacy preservation. Today, privacy is one of the major concerns of users when exchanging information through the Web and thus we believe that trust negotiation systems must effectively address privacy ...

Keywords: Access control, attribute-based access control, automated trust negotiation, credentials, privacy, strategy

20 Understanding the network-level behavior of spammers

 Anirudh Ramachandran, Nick Feamster
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(410.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper studies the *network-level* behavior of spammers, including: IP address ranges that send the most spam, common spamming modes (e.g., BGP route hijacking, bots), how persistent across time each spamming host is, and characteristics of spamming botnets. We try to answer these questions by analyzing a 17-month trace of over 10 million spam messages collected at an Internet "spam sinkhole", and by correlating this data with the results of IP-based blacklist lookups, passive TCP finge ...

Keywords: BGP, botnet, network management, security, spam

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Relevance scale

21 [Birrell's distributed reference listing revisited](#)

Luc Moreau, Peter Dickman, Richard Jones

 November 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 27 Issue 6

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Java RMI collector is arguably the most widely used distributed garbage collector. Its distributed reference listing algorithm was introduced by Birrell et al. in the context of Network Objects, where the description was informal and heavily biased toward implementation. In this article, we formalize this algorithm in an implementation-independent manner, which allows us to clarify weaknesses of the initial presentation. In particular, we discover cases critical to the correctness of the alg ...

Keywords: Distributed garbage collection, distributed reference counting/listing, proof of correctness

22 [Chat I: Exms: an animated and avatar-based messaging system for expressive peer](#)

communication

Per Persson

 November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03**

Publisher: ACM Press

Full text available: [pdf\(418.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While many *synchronous* computer-mediated communication systems have failed to encourage users to make use of the expressive capabilities of their avatars, *asynchronous* systems may hold better chance. This paper reports on the design and user study of a message system that allows users to concatenate and annotate avatar animations and send them to peers. During three weeks, a group of 11 17-year-olds exchanged 222 animated messages in their everyday life environment. The interplay b ...

Keywords: animation, avatars, computer-mediated communication, expressiveness, multi-media authoring tools

23 Verifiable encryption of digital signatures and applications Giuseppe AtenieseFebruary 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(258.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new simple schemes for verifiable encryption of digital signatures. We make use of a trusted third party (TPP) but in an *optimistic* sense, that is, the TPP takes part in the protocol only if one user cheats or simply crashes. Our schemes can be used as primitives to build efficient fair exchange and certified e-mail protocols.

Keywords: Certified e-mail, contract signing, digital signatures, fair exchange, proof of knowledge, public-key cryptography

24 Improving reliable transport and handoff performance in cellular wireless networks

Hari Balakrishnan, Srinivasan Seshan, Randy H. Katz

December 1995 **Wireless Networks**, Volume 1 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

TCP is a reliable transport protocol tuned to perform well in traditional networks where congestion is the primary cause of packet loss. However, networks with wireless links and mobile hosts incur significant losses due to bit-errors and hand-offs. This environment violates many of the assumptions made by TCP, causing degraded end-to-end performance. In this paper, we describe the additions and modifications to the standard Internet protocol stack (TCP/IP) to improve end-to-end reliable tr ...

25 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(631.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

26 Stateful distributed interposition John Reumann, Kang G. ShinFebruary 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

Keywords: Distributed computing, component services, distributed context, multitiered

services, operating systems, server consolidation

27 A framework for event-based software integration

 Daniel J. Barrett, Lori A. Clarke, Peri L. Tarr, Alexander E. Wise

October 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 5 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(413.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Although event-based software integration is one of the most prevalent approaches to loose integration, no consistent model for describing it exists. As a result, there is no uniform way to discuss event-based integration, compare approaches and implementations, specify new event-based approaches, or match user requirements with the capabilities of event-based integration systems. We attempt to address these shortcomings by specifying a generic framework for event-based integration< ...

Keywords: CORBA, FIELD, Polylith, control integration, event-based systems, interoperability, reference model, software integration

28 On secure and pseudonymous client-relationships with multiple servers

 Eran Gabber, Phillip B. Gibbons, David M. Kristol, Yossi Matias, Alain Mayer

November 1999 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 2 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(161.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper introduces a cryptographic engine, Janus, which assists clients in establishing and maintaining secure and pseudonymous relationships with multiple servers. The setting is such that clients reside on a particular subnet (e.g., corporate intranet, ISP) and the servers reside anywhere on the Internet. The Janus engine allows each client-server relationship to use either weak or strong authentication on each interaction. At the same time, each interaction preserves privacy by neither ...

Keywords: Janus function, anonymity, mailbox, persistent relationship, privacy, pseudonym

29 EventRank: a framework for ranking time-varying networks

 Joshua O'Madadhain, Padhraic Smyth

August 2005 **Proceedings of the 3rd international workshop on Link discovery**

LinkKDD '05

Publisher: ACM Press

Full text available:  [pdf\(293.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Node-ranking algorithms for (social) networks do not respect the sequence of events from which the network is constructed, but rather measure rank on the aggregation of all data. For data sets that relate to the flow of information (e.g., email), this loss of information can obscure the true relative importances of individuals in the network. We present EventRank, a framework for ranking algorithms that respect event sequences and provide a natural way of tracking changes in ranking over time. W ...

Keywords: network ranking algorithms, network temporal evolution, social network analysis

30 Risks to the public: Risks to the public



Peter G. Neumann

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(151.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

31 ECSGlasses and EyePliances: using attention to open sociable windows of

interaction



Jeffrey S. Shell, Roel Vertegaal, Daniel Cheng, Alexander W. Skaburskis, Changuk Sohn, A. James Stewart, Omar Aoudeh, Connor Dickie

March 2004 **Proceedings of the 2004 symposium on Eye tracking research & applications ETRA '04**

Publisher: ACM Press

Full text available: [pdf\(14.56 MB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present ECSGlasses: wearable eye contact sensing glasses that detect human eye contact. ECSGlasses report eye contact to digital devices, appliances and EyePliances in the user's *attention space*. Devices use this attentional cue to engage in a more sociable process of turn taking with users. This has the potential to reduce inappropriate intrusions, and limit their disruptiveness. We describe new prototype systems, including the Attentive Messaging Service (AMS), the Attentive Hit Coun ...

Keywords: attentive user interfaces, context-aware computing, eye contact sensing, eye tracking, ubiquitous computing

32 Labels and event processes in the asbestos operating system



Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris

October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available: [pdf\(258.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Asbestos, a new prototype operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced label mechanism, including controls on inter-process communication and system-wide information flow. A new event process abstraction provides lightweight, isolated contexts within a single process, allowing the same process to act on behalf of multiple users while ...

Keywords: event processes, information flow, labels, mandatory access control, secure web servers

33 CAIS: collaborative asynchronous inspection of software

 Vahid Mashayekhi, Chris Feulner, John Riedl
December 1994 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2nd ACM SIGSOFT symposium on Foundations of software engineering SIGSOFT '94**, Volume 19 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many software engineering tasks have a synchronous component that requires the participants to assemble together at the same time and place. This approach is expensive in terms of traveling, scheduling and human resources. Existing computer tools mitigate these constraints by adding structure to the meeting, providing on-line document support, and distributing the participants over geographic boundaries. The constraint remains, however, that all participants participate at the same time. We propos ...

Keywords: asynchrony, collaboration, computer-supported cooperative work, concurrent software engineering, notification, software inspection

34 Security & privacy: SmokeScreen: flexible privacy controls for presence-sharing 

 Landon P. Cox, Angela Dalton, Varun Marupadi
June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

Publisher: ACM Press

Full text available:  pdf(321.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Presence-sharing is an emerging platform for mobile applications, but presence-privacy remains a challenge. Privacy controls must be flexible enough to allow sharing between both trusted social relations and untrusted strangers. In this paper, we present a system called SmokeScreen that provides flexible and power-efficient mechanisms for privacy management.

Broadcasting *clique signals*, which can only be interpreted by other trusted users, enables sharing between social relation ...

Keywords: location privacy, mobile computing, pervasive computing, presence-sharing, social networks

35 Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service 

 Yasushi Saito, Brian N. Bershad, Henry M. Levy
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

36

Distributed systems: PeerReview: practical accountability for distributed systems 

 Andreas Haeberlen, Petr Kouznetsov, Peter Druschel
October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**

Publisher: ACM Press

Full text available:  [pdf\(363.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe PeerReview, a system that provides accountability in distributed systems. PeerReview ensures that Byzantine faults whose effects are observed by a correct node are eventually detected and irrefutably linked to a faulty node. At the same time, PeerReview ensures that a correct node can always defend itself against false accusations. These guarantees are particularly important for systems that span multiple administrative domains, which may not trust each other. PeerReview works by m ...

Keywords: accountability, byzantine faults, distributed systems, fault detection

37 Law-governed interaction: a coordination and control mechanism for heterogeneous distributed systems 

 Naftaly H. Minsky, Victoria Ungureanu
July 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(792.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software technology is undergoing a transition from monolithic systems, constructed according to a single overall design, into conglomerates of semiautonomous, heterogeneous, and independently designed subsystems, constructed and managed by different organizations, with little, if any, knowledge of each other. Among the problems inherent in such conglomerates, none is more serious than the difficulty to control the activities of the disparate agents operating in it, and the ...

Keywords: coordination of heterogeneous agents, policy enforcement, scalability

38 Dynamic data fusion for future sensor networks 

 Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, Phillip Hutto, Arnab Paul
August 2006 **ACM Transactions on Sensor Networks (TOSN)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor networks. Elements of the DFuse architecture include a fusion API, a distributed role assignment algorithm that dynamically adapts the placement of the application task graph on the network, and an abstraction migration facility that aids such ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment

39 Harnessing technology for effective inter- and intra-institutional collaboration: report of the ITiCSE '97 working group on supporting inter- and intra-institutional collaboration 

Douglas Siviter, Marian Petre, Bruce Klein

October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The computer science discipline is well poised to provide leading examples of harnessing communications and computer technologies in order to encourage collaborative practices both within and between institutions. Students, academics, and institutions all potentially have access to their counterparts world-wide. This provides endless opportunities for sharing knowledge, accessing scarce expertise, making effective re-use of limited resources, collaborating to attract funding and influence polici ...

40 [The conference control channel protocol \(CCCP\): a scalable base for building conference control applications](#) 

 Mark Handley, Ian Wakeman, Jon Crowcroft

October 1995 **ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the Conference Control Channel Protocol (CCCP), a new scheme intended for controlling conferences ranging from small, tightly coupled meetings, to extremely large loosely coupled seminars. We describe the requirements of such a scheme, and present a framework for building systems that connect together new and existing applications.

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 Relevance scale

41 [Stanford WebBase components and applications](#)

 Junghoo Cho, Hector Garcia-Molina, Taher Haveliwala, Wang Lam, Andreas Paepcke, Sriram Raghavan, Gary Wesley

 May 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 2

Publisher: ACM Press

 Full text available:  [pdf\(609.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the design and performance of WebBase, a tool for Web research. The system includes a highly customizable crawler, a repository for collected Web pages, an indexer for both text and link-related page features, and a high-speed content distribution facility. The distribution module enables researchers world-wide to retrieve pages from WebBase, and stream them across the Internet at high speed. The advantage for the researchers is that they need not all crawl the Web before beginning t ...

Keywords: WebBase Web crawler, distribution, hyperlink indexing, site crawling

42 [Harnessing technology for effective inter- and intra-institutional collaboration \(report of the ITiCSE '97 working group on supporting inter- and intra institutional collaboration\)](#)

Douglas Siviter, Marian Petre, Bruce Klein

 June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings ITiCSE-WGR '97**
Publisher: ACM Press

 Full text available:  [pdf\(145.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

43 [AIDA: Adaptive application-independent data aggregation in wireless sensor networks](#)

Tian He, Brian M. Blum, John A. Stankovic, Tarek Abdelzaher

 May 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 2

Publisher: ACM Press

 Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sensor networks, a novel paradigm in distributed wireless communication technology, have been proposed for various applications including military surveillance and environmental monitoring. These systems deploy heterogeneous collections of sensors capable of observing and reporting on various dynamic properties of their surroundings in a time sensitive manner. Such systems suffer bandwidth, energy, and throughput constraints that limit the quantity of information transferred from end-to-end. The ...

Keywords: Data aggregation, adaptive algorithms, congestion control, energy conservation, feedback control, sensor networks

44 Verifying security protocols with Brutus

 E. M. Clarke, S. Jha, W. Marrero

October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 9 Issue 4

Publisher: ACM Press

Full text available:  pdf(347.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Due to the rapid growth of the "Internet" and the "World Wide Web" security has become a very important concern in the design and implementation of software systems. Since security has become an important issue, the number of protocols in this domain has become very large. These protocols are very diverse in nature. If a software architect wants to deploy some of these protocols in a system, they have to be sure that the protocol has the right properties as dictated ...

Keywords: authentication and secure payment protocols, formal methods, model-checking

45 Robust content creation with form-oriented user interfaces

 Dirk Draheim, Christof Lutteroth, Gerald Weber

July 2005 **Proceedings of the 6th ACM SIGCHI New Zealand chapter's international conference on Computer-human interaction: making CHI natural CHINZ '05**

Publisher: ACM Press

Full text available:  pdf(406.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe how content can be created in a way that ensures its integrity at all times, and how the user interface for such a content editing program can be modeled using the methodology of form-oriented analysis. The paper discusses aspects concerning the data that is being created, as well as aspects of the content editor itself. We show that technological features like typing, opaque identities and user transactions can facilitate the process of content creation as experienced ...

Keywords: configuration, content creation, form-oriented user interfaces, robustness, usability, user interface design

46 FAR: Face-aware routing for mobicast in large-scale sensor networks

 Qingfeng Huang, Sangeeta Bhattacharya, Chenyang Lu, Gruia-Catalin Roman

November 2005 **ACM Transactions on Sensor Networks (TOSN)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.89 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents FAR, a Face-Aware Routing protocol for mobicast---a spatiotemporal variant of multicast tailored for sensor networks with environmental mobility. FAR features

face-routing and timed-forwarding for delivering a message to a mobile delivery zone. Both analytical and statistical results show that FAR achieves reliable spatial and just-in-time message delivery with only moderate communication and memory overhead. This article also presents a novel distributed algorithm for spat ...

Keywords: System design, graph theory, sensor networks, simulations, spatiotemporal multicast, statistics, wireless ad hoc networks

47 [Nomadic radio: scaleable and contextual notification for wearable audio messaging](#) 

 Nitin Sawhney, Chris Schmandt

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit CHI '99**

Publisher: ACM Press

Full text available:  pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile workers need seamless access to communication and information services on portable devices. However current solutions overwhelm users with intrusive and ambiguous notifications. In this paper, we describe scaleable auditory techniques and a contextual notification model for providing timely information, while minimizing interruptions. Users actions influence local adaptation in the model. These techniques are demonstrated in Nomadic Radio, an audio-only wearable computing platf ...

Keywords: adaptive interfaces, auditory I/O, interruptions, notifications, passive awareness, wearable computing

48 [The Totem multiple-ring ordering and topology maintenance protocol](#) 

 D. A. Agarwal, L. E. Moser, P. M. Melliar-Smith, R. K. Budhia

May 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available:  pdf(367.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Totem multiple-ring protocol provides reliable totally ordered delivery of messages across multiple local-area networks interconnected by gateways. This consistent message order is maintained in the presence of network partitioning and remerging, and of processor failure and recovery. The protocol provides accurate topology change information as part of the global total order of messages. It addresses the issue of scalability and achieves a latency that increases logarithmically with ...

Keywords: Lamport timestamp, network partitioning, reliable delivery, topology maintenance, total ordering, virtual synchrony

49 [Discovering personally meaningful places: An interactive clustering approach](#) 

 Changqing Zhou, Dan Frankowski, Pamela Ludford, Shashi Shekhar, Loren Terveen

July 2007 **ACM Transactions on Information Systems (TOIS)**, Volume 25 Issue 3

Publisher: ACM Press

Full text available:  pdf(817.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The discovery of a person's meaningful places involves obtaining the physical locations and their labels for a person's places that matter to his daily life and routines. This problem is driven by the requirements from emerging location-aware applications, which allow a user to pose queries and obtain information in reference to places, for example, "home", "work" or "Northwest Health Club". It is a challenge to map from physical

locations to personally mea ...

Keywords: Ubiquitous computing, clustering algorithms, field studies, location-aware applications, place discovery

50 Security, privacy, and anonymity

 Thomas Wright

December 2004 **Crossroads**, Volume 11 Issue 2

Publisher: ACM Press

Full text available:  [html\(48.04 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



51 Migrating sockets—end system support for networking with quality of service guarantees

David K. Y. Yau, Simon S. Lam

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Publisher: IEEE Press

Full text available:  [pdf\(369.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of service guarantees, user level protocol

52 Web meets operating systems: Protection and communication abstractions for web browsers in MashupOS

 Helen J. Wang, Xiaofeng Fan, Jon Howell, Collin Jackson

October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**

Publisher: ACM Press

Full text available:  [pdf\(328.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Web browsers have evolved from a single-principal platform on which one site is browsed at a time into a multi-principal platform on which data and code from mutually distrusting sites interact programmatically in a single page at the browser. Today's "Web 2.0" applications (or *mashups*) offer rich services, rivaling those of desktop PCs. However, the protection and communication abstractions offered by today's browsers remain suitable only for a single-principal system--either *no trust* ...

Keywords: abstractions, browser, communications, multi-principal OS, protection, same-origin policy, security, web

53 The ears and eyes have it: supporting audio & video: A comparison of chat and audio in media rich environments

 Jeremiah Scholl, John McCarthy, Rikard Harr

November 2006 **Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work CSCW '06**

Publisher: ACM Press

Full text available:  [pdf\(394.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



This paper presents two case studies of informal group communication using multimedia conferencing that supports various media including video, audio and chat. The studies

provide a comparison of audio and chat as communication medium and present data on usage patterns, user preferences and attitudes. The quantitative and qualitative data collected suggest that chat does have advantages in some situations when used for informal communication along with video. The results provide evidence against ...

Keywords: chat, collaboration, video conferencing

54 Quantum "encryption" (student paper panel)

 Mark V. Hurwitz

April 2000 **Proceedings of the tenth conference on Computers, freedom and privacy: challenging the assumptions CFP '00**

Publisher: ACM Press

Full text available:  [pdf\(107.79 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



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AUTONOMIC E-MAIL PROCESSING SYSTEM AND METHOD - Patent 20050027803

The key data includes the **unique ID** numbers and status of the autonomic ... Note that a **sender or recipient** may consider an autonomic e-mail message to be ...

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Automatic e-mail address directory and sorting system - Patent ...

The method of claim 6, wherein the domain name of the **sender's e-mail** a commercial suffix directory) is preferably given an **unique ID** and will be ...

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blocking legitimate **senders** and IPs is collateral damage, or put more plainly, wanted email does not get delivered to the **intended recipient** ...

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System and method of exchanging identification information for ...

The **response** may be in the form of a reply email message or in some other so that only the **intended recipient** mobile station can decrypt the message. ...

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E-mail messaging system - US Patent 6708205

As described above, the access status of a **sender** can be **designated** on a a commerical suffix directory) is preferably given an **unique ID** and will be ...

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recipient response as well. In many emergency situations, organizations need to account for At any time, a **sender** can select a **unique** set of recip- ...

www.idsemergencymanagement.com/Common/Paper/Paper_143/Minimizing%20Business%20Disruption.pdf - [Similar pages](#)

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Decoy: A **unique** name inserted into a mailing list to **track** the usage of the Opt-in: A direct, pro-active request by an individual **e-mail recipient** to ...

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Once you have sent an **e-mail** message to someone, that **recipient** can easily except the **sender** and the **intended recipient** can read a particular **e-mail**. ...

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where PostX can harvest the **intended recipient's** OpenPGP or S/MIME certificates.

administrator) any or all of the **email response** functions shown; ...

www.ironport.com/pdf/ironport_encryption_product_summary_corp_overview.pdf -

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E-mail communications system, method and program - Patent 20020169835

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EP1134644 Ibm european software patent - Method and system for ...

[0061] An SID is a unique identification which identifies a system that is set up for automatic execution, and the request is completed without error, ...
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